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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/852,292	05/10/2001	Alexander Knoll	420/49867	3804
7590 06/28/2006 CROWELL & MORNING, L.L.P.			EXAMINER ABDULSELAM, ABBAS I	
Washington, DC 20044-4300			2629	

DATE MAILED: 06/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/852,292	KNOLL, ALEXANDER				
Office Action Summary	Examiner	Art Unit				
	Abbas I. Abdulselam	2629				
The MAILING DATE of this communication ap	ppears on the cover sheet with th	e correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT .136(a). In no event, however, may a reply b d will apply and will expire SIX (6) MONTHS f te, cause the application to become ABANDO	ION. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 30 c	June 2005.					
	is action is non-final.					
3) Since this application is in condition for allows	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application	n.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examin	er.					
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by th	e Examiner.				
Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Off	ice Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119	(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documen		ation No				
3. Copies of the certified copies of the price	ority documents have been rece	eived in this National Stage				
application from the International Burea	au (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	t of the certified copies not rece	ived.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summ Paper No(s)/Mai					
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08</li> </ol>	_	al Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>02/13/04, 10/23/03</u> .	6) Other:					

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## **DETAILED ACTION**

1. In view of the petition granted to revive the abandoned application, the following nonfinal action is reissued.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1-10 rejected under 35 U.S.C. 103(a) as being unpatentable over Schmitt (USPN 6173220).

Regarding claim 1, Schmitt teaches a flight control display and instrument one of which is an attitude direction indicator (ADI). Schmitt teaches that that ADI indicates a reference point or line such as a representative horizon line relative to the position of the aircraft. Schmitt also teaches that the aircraft may be represented by a fixed element of ADI display depicting the aircraft wings as one or more horizontal marks that are centered with respect to the display screen. See col. 1, lines 10-23-Schmitt teaches a display element (200) including the center of a display to which a pilot's attention is drawn using window areas (214). See col. 5, lines 28-31 and Fig 2. Furthermore, Schmitt teaches a first image portion (206), representing the sky that defined by the area above horizon line (204) that may rotate in response to changes in roll of the aircraft. See col. 4, lines 39-44, 66-67 and col. 5, lines1-10.

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However, Schmitt does not specifically mention "an aircraft symbol with a center to depict a longitudinal axis and a lateral line to depict a current attitude of the aircraft". Schmitt also does not specifically disclose destination position symbol, its location, and alignment with "reference line" as well as "skyline".

On the other hand, Schmitt teaches a detection element (106) configured to determine the position/attitude of the aircraft including the pitch of the aircraft relative to a reference (e.g. horizon), and the roll of the aircraft relative to its longitudinal axis, Schmitt further indicates the use of a processor (102) which may be configured in a desired fashion to receive and process target and/or bearing data (108) to an intended destination of the aircraft. Schmitt indicates that the data (108) could be specific landing coordinates, a runway etc. See col. 3, lines 49-67, col. 4, lines 1-11 and Fig 1.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to utilize Schmitt's detection element (106) and processor (102) for the purpose of position determination with respect to one or more locations, points, planes and targets as taught by Schmitt.

Regarding claims 2-3, Schmitt teaches directional markers (402) which identify toward a suitable reference altitude. See col. 7, Lines 5-8.

Regarding claims 4-7, Schmitt teaches a processor (102) which process data (108) related to destination position, coordinates and other destination-related details. Col. 4, lines 1-11.

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Regarding claims 8-10, Schmitt teaches the use of a variety flight control displays including head up display (HUD), and Liquid crystal display. See col. 1, lines 10-14 and col. 2, lines 61-67.

## Conclusion

3. The prior art made of record and not relied upon is considered to applicant's disclosure.

The following arts are cited for further reference.

U.S. Pat, No. 5,343,395 to Watts

U.S. Pat. No. 5,388,990 to Beckman

U.S. Pat. No. 5,745,073 to Tomita

U.S. Pat. No. 6,150,960 Voulgaris

U.S. Pat. No. 6,389,333 Hansman

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abbas I. Abdulselam whose telephone number is 571-272-7685. The examiner can normally be reached on Monday through Friday from 9:00A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abbas Abdulselam

Examiner

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June 20, 2006

RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600